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p.neenan@cabi.org

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P.M. Neenan BSc, HDipEd
p.neenan@cabi.org

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The address cited for an abstract normally refers to the first author and is usually the place where the work was carried out.

Edited authors' summaries are used for the abstracts if suitable. Special efforts are made to provide informative abstracts of papers in less commonly used languages and in publications which cannot easily be obtained. In consulting an entry the reader should remember that the title of the paper is an integral part of the abstract and may include information necessary for its full comprehension. Material in square brackets within a title or abstract has been added during abstracting and does not appear in the original document.

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The language symbols used are listed below. An initial capital letter denotes the main language of a paper, an initial small letter the language of the summary.

Af	Afrikaans	Gr	Greek	Nl	Dutch, Flemish
Al	Albanian	He	Hebrew	No	Norwegian
Ar	Arabic	Hi	Hindi	Pe	Persian
Az	Azerbaijani	Hu	Hungarian	Pl	Polish
Be	Belarussian	Ia	Interlingua	Pt	Portuguese
Bg	Bulgarian	In	Indonesian	Ro	Romanian
Ch	Chinese	Is	Icelandic	Ru	Russian
Cs	Czech	It	Italian	Sh	Serbo Croat
Da	Danish	Ja	Japanese	Sk	Slovak
De	German	Ko	Korean	Sn	Slovenian
Ee	Estonian	La	Latin	Sv	Swedish
En	English	Li	Lithuanian	Ta	Tajik
Eo	Esperanto	Lv	Latvian	Th	Thai
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Malarial vaccines—a problem solved or simply a promising start? By R.S. Phillips 459

INTERNATIONAL INSTITUTE OF PARASITOLOGY

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395a Hatfield Road, St Albans, Herts AL4 OXU, UK

Telephone: St Albans (0727) 833151 (International +44 727 833151)

Telecom Gold/Dialcom: 84 CAU011 Telex: 9312102254 IP G Fax: (International +44 727 868721)

Director: W.M.Hominick MSc, PhD

Unit Heads: Helminth Taxonomy: L.M. Gibbons, PhD, FIBiol, CBiol
Plant Nematode Taxonomy: M.R. Siddiqi, PhD, DSc, FLS, FIBiol, CBiol
Tropical Plant Nematology Advisory and Research: J. Bridge, MSc, PhD, CBiol
Tropical Parasitic Diseases: S. Townson, MSc, PhD
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The International Institute of Parasitology (IIP), founded in 1929, has a staff of about 32 and provides taxonomic identification, research, consultancy and contract services to world agriculture and medicine. The Institute is an International centre for the systematics of parasitic helminths of animals and man, and plant parasitic and entomophilic nematodes. Publications include research papers, books, monographs and keys (details on request).

Institute staff are active in project work in many parts of the world, acting as consultants or researchers for a variety of international and national agencies. IIP staff contribute as advisers to field and survey work, and provide an authoritative service for the nematodes and helminths collected.

Identification Services

IIP provides an authoritive identification service to agricultural, biological and medical scientists throughout the world. The service handles plant parasitic and entomophilic nematodes and helminth parasitic of animals and man. The services are backed by well documented and extensive reference collections including those of several eminent helminthologists; living cultures of plant parasites nematodes are maintained in the IIP greenhouses; living cultures of entomophilic nematodes are also maintained. IIP's team of specialists is also involved in research including taxonomic revision of economically important groups of helminths and plant parasitic nematodes and the production of identification aids. Details of charging and advice on collection, preservation and despatch of specimens for identification are available on request. The identification service is provided free of charge to non commercial users in CABI member countries and at moderate cost to users in non-member countries and in commercial organizations. This policy has been reviewed and charges will be introduced in 1994.

Tropical Plant Nematology Advisory and Research Unit

The unit provides an advisory service to countries in the sub-tropics and tropics, as an adjunct to the identification services provided at the Institute. It gives practical information and advice on the economic importance and control methods that can be employed on nematodes identified. Staff are available for consultancies on nematode problems and can undertake surveys of individual crops or regions, plan workshops or give in-country advice on existing nematode projects and problems. Staff are engaged in funded research on tropical nematodes in glasshouses and laboratories at the Institute, which also provides facilities for visiting research workers. The unit is part of a "Research Group for Nematodes in Tropical and Subtropical Agriculture" formed between the Institute and the AFRC Institute of Arable Crops Research, Rothamsted,UK.

Tropical Parasitic Diseases Unit

The unit carries out research projects directed towards the prevention and treatment of human tropical parasitic diseases. Reasearch at IIP has focused on onchocerciasis, lymphatic filariasis and malaria and thier arthropods vectors, and is funded by major international agencies such as WHO and the Edna McConnell Clark Foundation. These projects are part of a world-wide multidisiplinary research effort to find and develop new drugs and vaccines, and involve collaboration between pharmaceutical companies, university and institute based on research groups and clinical groups working in field trials.

Training

IIP offers both formal and informal training courses and facilities for visiting workers. Training is particuarly orientated towards scientists and extension workers in developing countries. Courses of six weeks duration, on the identification of helminth parasites or plant parasitic nematodes of economic importance, are offered in alternate years to groups of fifteen participants.

Supervised individual study periods of up to 12 month is offered by IIP's specialists and facilities are available for postgraduate studies for higher degrees or as part of a higher degree course. IIP is an associated Institute of the University of London. Visiting workers in relevant fields of research are welcome to use the facilities and expertise available at IIP.

Library

The IIP library offers a specialist collection of over 6600 books, 231 serial titles and over 28,000 reprints on helminthology, protozoology and plant nematology available to outside users. Computer terminals permit on-line retrieval from the world's major databases, including CAB ABSTRACTS, and offers a photocopying service as part of CABI Document Delivery Service. IIP collaborates with the Information Services of CABI in the production of books and journals in its field.

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Academic Journal of Second Military Medical University
Acta Academiae Agriculturae ac Technicae Olstenensis, Veterinaria
Acta Cientifica Venezolana
Acta Clinica Belgica
Acta Cytologica
Acta Dermato-Venereologica
Acta Ichthyologica et Piscatoria
Acta Leidensia
Acta Mediterranea di Patologia Infettiva e Tropicale
Acta Obstetricia et Gynecologica Scandinavica
Acta Paediatrica
Acta Parasitologica
Acta Parasitologica Lituanica
Acta Pediatrica Mediterranea
Acta Pharmacologica Sinica
Acta Protozoologica
Acta Tropica
Acta Veterinaria (Beograd)
Acta Veterinaria Brno
Acta Veterinaria et Zootechnica Sinica
Acta Veterinaria Hungarica
Acta Veterinaria Scandinavica
Acta Zoologica Bulgarica
Advances in Microbial Ecology
Advances in Neuroimmunology
Advances in the Study of Behavior
Agricultural Research (Washington)
AIDS
AJDC, American Journal of Diseases of Children
Alimentaria
Alimentary Pharmacology & Therapeutics
American Family Physician
American Journal of Cardiology
American Journal of Clinical Nutrition
American Journal of Clinical Oncology, Cancer Clinical Trials.
American Journal of Clinical Pathology
American Journal of Dermatopathology
American Journal of Epidemiology
American Journal of Gastroenterology
American Journal of Hematology
American Journal of Medicine
American Journal of Ophthalmology
American Journal of Public Health
American Journal of Respiratory Cell and Molecular Biology
American Journal of Roentgenology
American Journal of Tropical Medicine and Hygiene
American Journal of Veterinary Research
Anais Brasileiros de Dermatologia
Anales del Instituto de Biología. Serie Zoología
Anales Españoles de Pediatría
Angewandte Parasitologie
Angiology
Animal Behaviour
Animal Feed Science and Technology
Animal Health Insight
Animal Husbandry & Veterinary Medicine
Animal Science and Technology
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Annales de Dermatologie et de Vénérologie
Annales de Gastroentérologie et d'Hépatologie
Annales de la Société Belge de Médecine Tropicale
Annales de Médecine Interne
Annales de Parasitologie Humaine et Comparée
Annales de Pédiatrie
Annales de Zootechnie
Annali dell'Istituto Superiore di Sanita
Annals of Dermatology
Annals of Neurology
Annals of Pharmacotherapy
Annals of Saudi Medicine
Annals of the Entomological Society of America
Annals of the New York Academy of Sciences
Annals of Thoracic Surgery
Annals of Tropical Medicine and Parasitology
Annals of Tropical Paediatrics
Annual Report - IFAKARA Centre
Annual Review of Fish Diseases
Annual Review of Immunology
Antimicrobial Agents and Chemotherapy
Apidologie
APMIS, Acta Pathologica, Microbiologica et Immunologica Scandinavica
Applied and Environmental Microbiology
Applied Parasitology
Aquaculture
Aquaculture and Fisheries Management
Aquatic Mammals
Archiv der Pharmazie (Weinheim)
Archiv für Geflügelkunde
Archiv für Protistenkunde
Archiva Veterinaria (Bucureşti)
Archive de l'Institut Pasteur d'Algérie
Archives de l'Institut Pasteur de Madagascar
Archives de l'Institut Pasteur de Tunisie
Archives de l'Institut Razi
Archives de Pediatrie
Archives Françaises de Pédiatrie
Archives of Biochemistry and Biophysics
Archives of Dermatology
Archives of Disease in Childhood
Archives of Internal Medicine
Archives of Medical Research
Archives of Neurology
Archives of Pathology and Laboratory Medicine
Archivio Veterinario Italiano
Archivos de Investigación Médica
Archivos de Medicina Veterinaria
Arkhiv Patologii
Arquivo Brasileiro de Medicina Veterinária e Zootecnia
Arquivos da Universidade Federal Rural do Rio de Janeiro
Arquivos de Neuro-Psiquiatria
Arquivos do Instituto Biológico (São Paulo)
Ars Veterinaria
Arzneimittel Forschung
Asian Pacific Journal of Allergy and Immunology
ASM News (Washington)
Assiut Veterinary Medical Journal
Atti della Federazione Mediterranea Sanità e Produzione Ruminanti
Australian and New Zealand Journal of Ophthalmology
Australian Journal of Agricultural Research
Australian Journal of Chemistry
Australian Veterinary Journal
Australian Veterinary Practitioner
Avian Diseases
Avian Pathology
Baillière's Clinical Obstetrics and Gynaecology
Beiträge zur Tropischen Landwirtschaft und Veterinärmedizin
Berliner und Münchener Tierärztliche Wochenschrift
Biochemical and Biophysical Research Communications
Biochemical Journal (London)
Biochemical Pharmacology
Biochemical Society Transactions
Biochemistry and Molecular Biology International
Biochimica et Biophysica Acta, Gene Structure and Expression
Biochimica et Biophysica Acta, Molecular Basis of Disease
Biofutur
Biologicheskiĭ Zhurnal Armenii
Biologija
Biomedical Letters
Bioorganic & Medicinal Chemistry Letters
Biopharm
Biopharmaceutics & Drug Disposition
BioTechniques
Biotechnology and Applied Biochemistry
Bioved
Blood
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Boletim de Indústria Animal

Boletín Chileno de Parasitología
Boletín de Divulgación Técnica, INTA
Boletín de la Oficina Sanitaria Panamericana
Boletín Epidemiológico y Microbiológico
Bone Marrow Transplantation
Bőrgyógyászati és Venerológiai Szemle
Brazilian Journal of Medical and Biological Research
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British Journal of Haematology
British Journal of Hospital Medicine
British Journal of Pharmacology
British Medical Bulletin
British Veterinary Journal
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Buletinul Universităţii de Ştiinţe Agricole Cluj-Napoca. Seria Zootehnie şi Medicină Veterinară
Bulletin - Natural Resources Institute
Bulletin - Postgraduate Institute of Medical Education and Research, Chandigarh.
Bulletin Agricole du Rwanda
Bulletin de l'Institut Pasteur, France
Bulletin de la Société de Pathologie Exotique
Bulletin de la Société Française de Parasitologie
Bulletin des G.T.V.
Bulletin des Séances, Académie Royale des Sciences d'Outre-Mer.
Bulletin of Animal Health and Production in Africa
Bulletin of Entomological Research
Bulletin of Hunan Medical University
Bulletin of the College of Agriculture and Veterinary Medicine, Nihon University
Bulletin of the European Association of Fish Pathologists
Bulletin of the Faculty of Agriculture, Tottori University
Bulletin of the Hokkaido Prefectural Shintoku Animal Husbandry Experiment Station
Bulletin of the Scandinavian Society for Parasitology
Bulletin of the Veterinary Institute in Puławy
Bulletin of the World Health Organization
Byulleten' Moskovskogo Obshchestva Ispytateleĭ Prirody, Biologicheskiĭ
Cadernos de Saúde Pública
Canadian Family Physician
Canadian Journal of Animal Science
Canadian Journal of Fisheries and Aquatic Sciences
Canadian Journal of Infectious Diseases
Canadian Journal of Microbiology
Canadian Journal of Veterinary Research
Canadian Journal of Zoology
Canadian Medical Association Journal
Canadian Veterinary Journal
Cancer Treatment Reviews
Carbohydrate Research
Cardiovascular Pathology
Časopis Lékařů Českých
Cell (Cambridge)
Cell Biochemistry and Function
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Cell Biology International Reports
Cellular Immunology
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Československá Epidemiologie, Mikrobiologie, Imunologie
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Cheiron
Chemia Analityczna
Chemical and Pharmaceutical Bulletin
Chest
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Chinese Journal of Parasitology & Parasitic Diseases
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Chinese Journal of Veterinary Science and Technology
Chinese Journal of Zoology
Chinese Medical Journal
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Clinical and Experimental Dermatology
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Comparative Haematology International
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Comunicações - Instituto de Investigação Científica Tropical, Série Ciências Biológicas
Condor
Contact Dermatitis
Cornea
Critical Care Clinics
Current Medical Research and Opinion
Current Microbiology
Current Opinion in Biotechnology
Current Opinion in Cardiology
Current Opinion in Immunology
Current Opinion in Infectious Diseases
Current Science
Current Topics in Microbiology and Immunology
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Cytometry
Cytopathology
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Deltion tēs Ellēnikēs Ktēniatrikēs Etaireias = Bulletin of the Hellenic Veterinary Medical Society
Dermatologica
Deutsche Lebensmittel-Rundschau
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Digestion
Digestive Diseases and Sciences
Diseases of Aquatic Organisms
DMB, Danish Medical Bulletin
Doğa, Türk Veterinerlik ve Hayvancılık Dergisi
Domestic Animal Endocrinology
Drug Investigation
Drug Metabolism and Disposition
Drug Safety
East African Medical Journal
Ecological Entomology
Ecology of Food and Nutrition
Egyptian Journal of Bilharziasis
Egyptian Journal of Comparative Pathology and Clinical Pathology
Ekologija
Electroanalysis
Electrophoresis
EMBO Journal
Endemic Diseases Bulletin
Environment and Ecology
Environmental Entomology
Epidemiology and Infection
Equine Veterinary Journal
Ethiopian Medical Journal
Etlik Veteriner Mikrobiyoloji Dergisi
European Journal of Biochemistry
European Journal of Cell Biology
European Journal of Clinical Nutrition
European Journal of Clinical Pharmacology
European Journal of Epidemiology
European Journal of Gastroenterology & Hepatology
European Journal of Haematology
European Journal of Immunology
European Journal of Medicinal Chemistry
European Journal of Protistology
European Microbiology
European Respiratory Journal
Evolution
Experimental & Applied Acarology
Experimental and Toxicologic Pathology
Experimental Parasitology
Eye
FEBS Letters
Feed Compounder
FEMS Immunology and Medical Microbiology
FEMS Microbiology Letters
Fett Wissenschaft Technologie
Fish & Shellfish Immunology
Fisheries Research
Fitoterapia
Flavour and Fragrance Journal
Fleischwirtschaft
Fluoride

Folia Microbiologica
Folia Parasitologica
Folia Venatoria
Folia Veterinaria
FONAIAP Divulga
Foreign Animal Disease Report
Forum for Development Studies
Game Conservancy Review
Garcia de Orta. Série de Zoologia
Gastroentérologie Clinique et Biologique
Gastroenterology
Geburtshilfe und Frauenheilkunde
Gene
Genitourinary Medicine
Gesundheitswesen
Gidrobiologicheskiĭ Zhurnal
Giornale di Malattie Infettive e Parassitarie
Giornale Italiano di Dermatologia e Venereologia
Grass and Forage Science
Great Lakes Entomologist
Gut
Harefuah
Health Policy and Planning
Hospital Formulary
Human Pathology
IDRC Reports
ILRAD Reports
Immunological Investigations
Immunology
Immunology and Cell Biology
Immunology and Infectious Diseases
Indian Farming
Indian Journal of Animal Health
Indian Journal of Animal Sciences
Indian Journal of Experimental Biology
Indian Journal of Indigenous Medicines
Indian Journal of Malariology
Indian Journal of Medical Research. Section A. Infectious Diseases
Indian Journal of Medical Sciences
Indian Journal of Parasitology
Indian Journal of Pediatrics
Indian Journal of Pharmaceutical Sciences
Indian Journal of Veterinary Medicine
Indian Pediatrics
Indian Veterinary Journal
Infection
Infection and Immunity
Infection Control and Hospital Epidemiology
Infectious Disease Clinics of North America
Infectious Diseases in Clinical Practice
Infectious Diseases Newsletter
Insect Science and its Application
Interciencia
International Archives of Allergy and Immunology
International Journal for Parasitology
International Journal of Animal Sciences
International Journal of Antimicrobial Agents
International Journal of Artificial Organs
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International Journal of Pharmaceutics
International Journal of Pharmacognosy
International Journal of Radiation Biology
International Journal of STD and AIDS
International Ophthalmology Clinics
International Surgery
Internist
Invasion & Metastasis
Iranian Journal of Public Health
Iraqi Journal of Veterinary Sciences
Israel Journal of Medical Sciences
Israel Journal of Veterinary Medicine
Izvestiya Akademii Nauk Azerbaidzhanskoi SSR, Biologicheskie Nauki
Izvestiya Akademii Nauk Kazakhskoĭ SSR. Seriya Biologicheskaya
Izvestiya Akademii Nauk SSSR. Seriya Biologicheskaya
JAMA, Journal of the American Medical Association
Japanese Journal of Applied Entomology and Zoology
Japanese Journal of Medical Mycology
Japanese Journal of Parasitology
Japanese Journal of Tropical Agriculture
Japanese Journal of Tropical Medicine and Hygiene
Japanese Journal of Veterinary Research
Journal de Mycologie Médicale
Journal de Radiologie (Paris)
Journal Français d'Ophtalmologie
Journal of Acquired Immune Deficiency Syndromes
Journal of African Zoology
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Journal of Animal Science
Journal of Antibiotics
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Kleintierpraxis
Klinische Monatsblätter für Augenheilkunde
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L'Igiene Moderna
Laboratornoe Delo
Laboratory Animal Science
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Laboratory Investigation
Laboratory Medicine
Lancet (British edition)
Large Animal Veterinarian
Life Sciences
Lipids
Lithium
Livestock Adviser
Lucrări Ştiinţifice, Universitatea de Ştiinţe Agronomice. Bucureşti. Seria C, Medicină Veterinară
M/S Médecine Sciences
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Médecine d'Afrique Noire
Médecine et Maladies Infectieuses
Medical and Veterinary Entomology
Medical Clinics of North America
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Medical Hypotheses
Medical Journal of Australia
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Medical Science Research
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Mediterranean Journal of Infectious and Parasitic Diseases
Meditsinskaya Parazitologiya i Parazitarnye Bolezni
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Molecular Biology of the Cell
Molecular Biology Reports
Molecular Microbiology
Molecular Pharmacology
Monatshefte für Veterinärmedizin
Monatsschrift Kinderheilkunde
Morbidity and Mortality Weekly Report
Mount Sinai Journal of Medicine
Münchener Medizinische Wochenschrift
Mutation Research, Fundamental and Molecular Mechanisms of Mutagenesis
Myanmar Health Sciences Research Journal
Mycopathologia
National Medical Journal of India
Natural Resources Forum
Nature (London)
Nauchnye Doklady Vysshei Shkoly, Biologicheskie Nauki
Nederlands Tijdschrift voor Geneeskunde
Nephron
New Biologist
New England Journal of Medicine
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New Zealand Journal of Botany
New Zealand Journal of Zoology
New Zealand Medical Journal
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NORAGRIC Occasional Papers. Series C, Development and Environment
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Norsk Veterinærtidsskrift
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Nova Acta Leopoldina
Nucleic Acids Research
Obiettivi e Documenti Veterinari
Obstetrics and Gynecology (New York)
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Oecologia
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Onderstepoort Journal of Veterinary Research
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Pakistan Veterinary Journal
Papua New Guinea Medical Journal
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Parasitología al Día
Parasitologia Hungarica
Parasitology
Parasitology Research
Parasitology Today
Parassitologia (Roma)
Parazitologiya
Pathologe
Pathologie Biologie
Pediatric AIDS and HIV Infection
Pediatric Dermatology
Pediatric Infectious Disease Journal
Pediatric Surgery (International)
Pediatrics
Pédiatrie (Lyon)
Pendik Veteriner Mikrobiyoloji Dergisi
Periodicum Biologorum
Perkin Transactions I
Pharmaceutical Journal
Pharmaceutisch Weekblad, Scientific Edition
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Pharmacology and Toxicology
Pharmacotherapy
Philippine Journal of Science
PHLS Microbiology Digest
Phytochemistry
Planta Medica
Plastic and Reconstructive Surgery
Postgraduate Doctor - Africa
Postgraduate Doctor - Middle East edition
Postgraduate Medical Journal
Poultry Adviser
Poultry Digest
Poultry Husbandry and Disease Control
Poultry Science
Practitioner
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Pratique Médicale & Chirurgicale de l'Animal de Compagnie
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Presse Médicale
Preventive Veterinary Medicine
Proceedings of Parasitology
Proceedings of the Academy of Natural Sciences of Philadelphia
Proceedings of the Annual Meeting of the United States Animal Health Association
Proceedings of the Annual Waltham/OSU Symposium for the Treatment of Small Animal Diseases
Proceedings of the Indian National Science Academy. Part B, Biological Sciences
Proceedings of the National Academy of Sciences of the United States of America

Proceedings of the Nutrition Society
Proceedings of the Section Experimental and Applied Entomology of the Netherlands Entomological Society
Proceedings of the Society for Experimental Biology and Medicine
Productions Animales
Progress in Veterinary & Comparative Ophthalmology
Protein Science
Proteins: Structure, Function, and Genetics
Przegląd Epidemiologiczny
Ptitsevodstvo
Publication - International Scientific Council for Trypanosomiasis Research and Control
Qinghai Xumu Shouyi Zazhi
Quarterly Journal of Medicine
Radiology
Rangifer
RDA Journal of Agricultural Science, Veterinary
Recueil de Médecine Vétérinaire
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Scandinavian Journal of Gastroenterology
Scandinavian Journal of Infectious Diseases
Scandinavian Journal of Infectious Diseases, Supplementum
Scandinavian Journal of Laboratory Animal Science
Schweizer Archiv für Tierheilkunde
Schweizerische Medizinische Wochenschrift
Science (Washington)
Science et Changements Planétaires Sécheresse
Scientific American
SEAMEO Quarterly
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Selezione Veterinaria
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Siriraj Hospital Gazette
Small Ruminant Research
Social Science & Medicine
South African Journal of Science
South African Journal of Wildlife Research
South African Journal of Zoology
South African Medical Journal
Southeast Asian Journal of Tropical Medicine and Public Health
Southern Medical Journal
Southwestern Entomologist
Sozial- und Präventivmedizin, Supplementum
Sozial- und Präventivmedizin
Studies in Family Planning
Suomen Eläinlääkärilehti
Surgery
Surveillance (Wellington)
Svensk Veterinärtidning
Swedish Journal of Agricultural Research
Swiss Vet
Symbiosis (Rehovot)
Systematic Parasitology
Técnica Pecuaria en México
Tetrahedron Letters
Theoretical Population Biology
Thérapie
Theriogenology
Thorax
Tierärztliche Praxis
Tijdschrift voor Diergeneeskunde
Toxicology
Toxicology in Vitro
Toxicon (Oxford)
Transactions of the American Microscopical Society
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Transfusion
Transplant International
Transplantation Proceedings
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Ultrastructural Pathology
Uttar Pradesh Journal of Zoology
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Vestnik Dermatologii i Venerologii
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Veterinarnaya Nauka - Proizvodstvu
Veterinární Medicína
Veterinarski Arhiv
Veterinarski Glasnik
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Veterinary Annual
Veterinary Clinical Pathology
Veterinary Immunology and Immunopathology
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Veterinary Quarterly
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Veterinary Research
Veterinary Research Communications
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Veterinary Times
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Veteriner Fakültesi Dergisi, Uludağ Üniversitesi
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Water Resources Bulletin
Water, Air, and Soil Pollution
Weekly Epidemiological Record
West African Journal of Medicine
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Wiener Medizinische Wochenschrift
Wiener Tierärztliche Monatsschrift
World Bank Technical Paper
World Health Forum
World Health Organization, WHO/MAL
Wuyi Science Journal

Yamaguchi Journal of Veterinary Medicine
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For further information, contact:

CAB INTERNATIONAL

Headquarters
Wallingford
Oxon OX10 8DE
UK
Tel: (01491) 832111
Telex: 847964 (COMAGG G)
Fax: (01491) 833508

North America
845 North Park Avenue
Tucson, Arizona 85719
USA
Tel: (800) 528 4841
(602) 621 7897
Fax: (602) 621 3816

Asia
PO Box 11872
50760 Kuala Lumpur
Malaysia
Tel: (03) 255 2922
Telex: 28031 (MA CABI)
Fax: (03) 255 1888

Caribbean
Gordon Street
Curepe
Trinidad and Tobago
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Telex: 0294 24438 (CARIRI)
Fax: (809) 663 2859

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CAB INTERNATIONAL
Wallingford, Oxon OX10 8DE, UK
Tel: (01491) 832111; Fax: (01491) 833508

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International Mycological Institute
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